



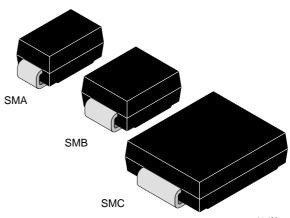
Vishay Lite–On Power Semiconductor

3.0A Surface Mount Schottky Barrier Rectifiers

Features

- Schottky barrier chip
- Guard ring die construction for transient protection
- Ideally suited for automatic assembly
- Low power loss, high efficiency
- Surge overload rating to 100A peak
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- Plastic material UL recognition flammability classification 94V–0

Absolute Maximum Ratings



14 430

Absolute Maximum Ratings $T_i = 25^{\circ}C$

Parameter	Test Conditions	Туре	Symbol	Value	Unit
Repetitive peak reverse voltage		B320/A/B	V _{RRM}	20	V
=Working peak reverse voltage =DC Blocking voltage		B330/A/B	=V _{RW} =V _R	30	V
		B340/A/B		40	V
		B350/A/B		50	V
		B360/A/B		60	V
Peak forward surge current			I _{FSM}	100	А
Average forward current	T _T =110°C		I _{FAV}	3	А
Junction and storage temperature range			T _j =T _{stg}	-65+150	°C

Electrical Characteristics

 $T_i = 25^{\circ}C$

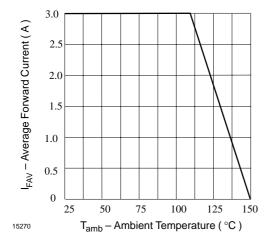
Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =3A	B320/A/B– B340/A/B	V _F			0.5	V
		B350/A/B– B360/A/B	V _F			0.7	V
Reverse current	T _A =25°C		I _R			0.5	mA
	T _A =100°C		I _R			20	mA
Diode capacitance	V _R =4V, f=1MHz		CD		300		pF
Thermal resistance junction to ambient	T _L =const.		R _{thJA}		15		K/W

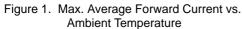
B320/A/B-B360/A/B

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Characteristics ($T_j = 25^{\circ}C$ unless otherwise specified)





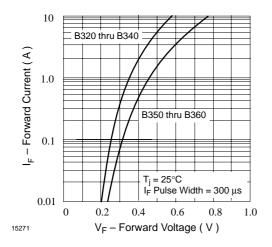


Figure 2. Typ. Forward Current vs. Forward Voltage

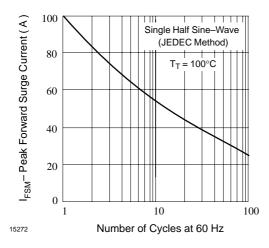


Figure 3. Max. Peak Forward Surge Current vs. Number of Cycles

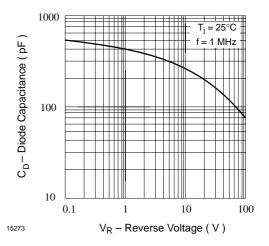


Figure 4. Typ. Diode Capacitance vs. Reverse Voltage

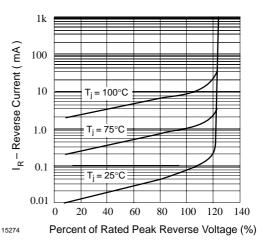


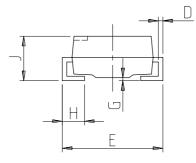
Figure 5. Typ. Reverse Current vs. Percent of Rated Peak Reverse Voltage



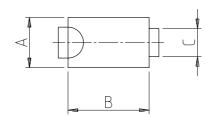
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Dimensions in mm



"A" Suffix Designates SMA Package "B" Suffix Designates SMB Package No Suffix Designates SMC Package





14462	

	SMA		SMB		SMC	
Dim	Min	Max	Min	Max	Min	Max
A	2.29	2.92	3.30	3.94	5.59	6.22
В	4.00	4.60	4.06	4.57	6.60	7.11
C	1.27	1.63	1.96	2.21	2.75	3.18
D	0.15	0.31	0.15	0.31	0.15	0.31
E	4.80	5.59	5.00	5.59	7.75	8.13
G	0.10	0.20	0.10	0.20	0.10	0.20
Η	0.76	1.52	0.76	1.52	0.76	1.52
J	2.01	2.62	2.00	2.62	2.00	2.62
	All Dimensions in mm					

Case: Molded Plastic Polarity: Cathode Band or Cathode Notch Approx. Weight: SMA 0.064 grams, SMB 0.093 grams, SMC 0.21 grams Mounting Position: Any Marking: Tupe Number

B320/A/B-B360/A/B

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Ozone Depleting Substances Policy Statement

It is the policy of Vishay Semiconductor GmbH to

- 1. Meet all present and future national and international statutory requirements.
- 2. Regularly and continuously improve the performance of our products, processes, distribution and operating systems with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is particular concern to control or eliminate releases of those substances into the atmosphere which are known as ozone depleting substances (ODSs).

The Montreal Protocol (1987) and its London Amendments (1990) intend to severely restrict the use of ODSs and forbid their use within the next ten years. Various national and international initiatives are pressing for an earlier ban on these substances.

Vishay Semiconductor GmbH has been able to use its policy of continuous improvements to eliminate the use of ODSs listed in the following documents.

- 1. Annex A, B and list of transitional substances of the Montreal Protocol and the London Amendments respectively
- 2. Class I and II ozone depleting substances in the Clean Air Act Amendments of 1990 by the Environmental Protection Agency (EPA) in the USA
- 3. Council Decision 88/540/EEC and 91/690/EEC Annex A, B and C (transitional substances) respectively.

Vishay Semiconductor GmbH can certify that our semiconductors are not manufactured with ozone depleting substances and do not contain such substances.

We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. Should the buyer use Vishay-Telefunken products for any unintended or unauthorized application, the buyer shall indemnify Vishay-Telefunken against all claims, costs, damages, and expenses, arising out of, directly or indirectly, any claim of personal damage, injury or death associated with such unintended or unauthorized use.

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